



Next H. 4881

Dr 4908 - 4949

Japanese Cruise,

1906

~~11~~

Book No. 5

No. *D. 4908* Date *Aug. 11/06*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth *434 fath.*  
 Shot ~~or lead~~ *35<sup>#</sup> & Sigsbee cup.*  
 Bottom *gy. glob. Oz.*  
 Bottom temperature *43.1°*  
 No. of thermometer *108019* Cor. *-0.2°*  
 Corrected temperature *42.9°*  
 Air *87°* Surface *84°* Drift  
 Trawl or dredge *12' Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1- 2-30</i>	<i>1-11-05</i>	0	<i>1-55-20</i>	<i>3-00-15</i>
<i>3-25</i>	<i>10-10</i>	100	<i>58-10</i>	<i>57-25</i>
<i>4-15</i>	<i>9-25</i>	200	<i>2-01-06</i>	<i>54-45</i>
<i>5-05</i>	<i>8-35</i>	300	<i>3-55</i>	<i>51-45</i>
<i>5-55</i>	<i>7-40</i>	400	<i>7-00</i>	<i>48-40</i>
<i>1- 6-10</i>	<i>1- 7-15</i>	<del>500</del> <i>434</i>	<i>9-50</i>	<i>45-30</i>
		600	<i>12-40</i>	<i>42-05</i>
		700	<i>15-30</i>	<i>38-55</i>
		<del>800</del> <i>750</i>	<i>2-17-00</i>	<i>2-37-00</i>
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	bcy - 7
		2700	Wind	E. S. E. 2
		2800	Sea	L.
		2900	Bar.	29.69
		3000	Ther. Att	84°
		3100	Course	West.
		3200	Chart	H.O. 1302
		3300	Lat.	31° 40' N.
		3400	Long.	129° 29' 40" E.
		3500	Beddings.	Tsurikake
		3600	Saki Light	S. 78° E.
		3700	(true) dist.	9.5 min.
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	* NO. OF THER.	COR.	COR. TEMP.
10		108133		
15-25	79.8	108136	-0.3	79.5°
25				
50		108031		
50				
100	68.5	108154	-0.7	68.3°
100				
200	61.1	108013	-0.3	60.9°
200				
300	49.3	104914	-0.3	49.0°
400	43.8	108019	-0.2	43.6°
500				
600	Started down at			1-17-00
700	Last ther. down at			1-32-20
800	Began heaving in			1-42-00
900	Last ther. up			1-52-30
1000	Water bottle on bottom.			

11-1023

#### REMARKS:

x Failed to trip.

No. *4909*Date *Aug 11, 1906*

Machine.

Reel.

Turns

Cor. +

Depth Est. *434 fath*Shot or lead *30*

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *87°*Surface *86°*

Drift

Trawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>3-11-20</i>	<i>4.17.00</i>
		100	<i>14-20</i>	<i>13.40</i>
		200	<i>17-10</i>	<i>10.30</i>
		300	<i>20-10</i>	<i>07.20</i>
		400	<i>23-15</i>	<i>04.20</i>
		500	<i>26-00</i>	<i>4.01.20</i>
		600	<i>29-00</i>	<i>58-20</i>
		700	<i>31-55</i>	<i>55-10</i>
		<del>750</del>		
		<del>800</del>	<i>3-33-20</i>	<i>3-53-20</i>
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	bcg 6
		2600	Wind	S.E. 1
		2700	Sea	S.
		2800	Bar.	29.68
		2900	Ther. att.	86°
		3000	Course	N. 40 x N.
		3100	Chart	H.C. 1302
		3200	Lat.	31° 38' 30"
		3300	Long.	129° 27' 30"
		3400	Blasings	Maunikaiki
		3500	Saki Light	S. 86° E.
		3600	(true) dist.	11.7 mi.
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
5 <del>25</del>	82.8°	108755 x)	-0.2	82.6°
10 <del>50</del>	80.8°	108019	-0.3	80.5°
25 <del>100</del>	70.°	104914	-0.3	69.7°
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

#### REMARKS:

4:26:30 - 4:31:30 =

x Did not trip.

No. *D. 4909* Date *11 Aug. 06.*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

*No Log.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *87°* Surface *85°* DriftTrawl or dredge *Inter. #1 x 2 Kft #2 x 3.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>4.33.50</i>	<i>5.17.50</i>
		100	<i>36.46</i>	<i>14.30</i>
		200	<i>39.26</i>	<i>11.10</i>
		300	<i>42.10</i>	<i>08.10</i>
		400.	<i>4.45.00</i>	<i>5.05.00</i>
		500		
		600	<i>Towed 20 min. at an est. depth of 300 fms.</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Leg. 6.
		2700	Wind	SE. 1
		2800	Sea	S.
		2900	Bar.	29.68
		3000	Ther. at	86°
		3100	Chart	H.O. 1302.
		3200	Cour. PSC	N.W. by N.
		3300	Lat.	31° 38' 30" N
		3400	Long.	129° 27' 30" E
		3500		
		3600	Quartz Lake	
		3700	Light S	86° E
		3800	(time)	dist 11.
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
35				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *14910*Date *11 Aug 06*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*out* *in*  
*8.01.20* *6 21 20*  
*Towed 20 m*  
*from lower*  
*part box*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 4911* Date *Aug 12, 1*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor. + Depth  
 Shot or lead *35 4*  
 Bottom *gn*  
 Bottom temperature  
 No. of thermometer *108019* Cor. *- 2*  
 Corrected temperature *41.9°*  
 Air *86°* Surface *83°* Drift  
 Trawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4912*Date *Aug. 12, 1906.*

Machine.

Reel.

Turns *-* Cor. +Depth *Est. 391 fath.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *84*Surface *83°*

Drift

Trawl or dredge *9' Ag*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100	<i>23-00</i>	<i>16-41</i>
		200	<i>26-00</i>	<i>13-30</i>
		300	<i>29-00</i>	<i>10-20</i>
		400	<i>32-00</i>	<i>07-10</i>
		500	<i>35-00</i>	<i>04-03</i>
		600		
		<del>700</del>	<i>9-39-30</i>	<i>9-59-30</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	<i>Lat. 31° 39' 40" N.</i>	
		3200	<i>Long. 129° 20' E.</i>	
		3300	<i>Chart H.O. 1</i>	
		3400	<i>Bearings:—Tsurikake</i>	
		3500	<i>Saki light S. 84° E.</i>	
		3600	<i>(true) dist. 17.5 miles</i>	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4913* Date *Aug. 12 1901*

Machine. Reel.

Turns. *—* Cor. + Depth *391* *wt.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer *20* Cor.

Corrected temperature

Air *84°* Surface *84°* DriftTrawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *1110* Date *12 June 06.*  
*Lucas* Machine. Reel. *Lucas*  
 Turns *427* Cor.+ Depth *427 fms.*  
 Shot or lead *35 lb. v. 2. 3. Cus.*  
 Bottom *gy. glb. Oz. bk. Sh.*  
 Bottom temperature *42.1°*  
 No. of thermometer *108019* Cor. — *.2°*  
 Corrected temperature *41.9°*  
 Air *87°* Surface *85°* Drift  
 Trawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1:00.30</i>	<i>1:09.00</i>	0	<i>1:15.45</i>	<i>2:17.00</i>
<i>01.20</i>	<i>08.05</i>	100	<i>16.35</i>	<i>13.45</i>
<i>02.20</i>	<i>07.20</i>	200	<i>22.00</i>	<i>12.35</i>
<i>03.15</i>	<i>06.30</i>	300	<i>25.00</i>	<i>09.15</i>
<i>04.05</i>	<i>05.40</i>	400	<i>27.00</i>	<i>04.30</i>
<i>1:04.25</i>	<i>1:05.20</i>	<i>427</i> 500	<i>31.25</i>	<i>2:04.00</i>
		600	<i>34.25</i>	<i>01.45</i>
		<del>600</del> <del>500</del>	<i>1:36.00</i>	<i>1:05.00</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P. L.	75.2
		2600	Weather	ben. 4.
		2700	Wind	NW. 1.
		2800	Sea	S.
		2900	Bar.	29.71
		3000	Ther. atd.	84°
		3100	Chart	H. O. 1302
		3200	Course P.S.C.	South.
		3300	Lat. 31° 33'	N.
		3400	Long. 122° 20'	E.
		3500	Tsunikaki Saki	
		3600	Lat. N 67° E (tr.)	
		3700	Dist. 13 mi.	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 1005 Date 12 Aug. 06.

Machine. Reel.

Turns Cor.+ Depth 477 fath.

Shot or lead

Bottom

No. Sdg.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 84° Surface 85° Drift

Trawl or dredge 9 Agassiz.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2.21.00	3.40.00
		100	2.30.00	3.30.00
		200	2.40.00	3.20.00
		300	2.50.00	3.10.00
		400	3.00.00	3.00.00
		500	3.10.00	2.50.00
		600	3.20.00	2.40.00
		700	3.30.00	2.30.00
		800	3.40.00	2.20.00
		900	3.50.00	2.10.00
		1000		
		1100	2.40.00	
		1200	2.50.00	
		1300	3.00.00	
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

At 2:28.10

Trawl or dredge 9 Agassiz.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Bar 4.
		2700	Wind	NW Y.
		2800	Sea	S.
		2900	Bar	29.70
		3000	The water	84°
		3100	Chart	H.O. 1307.
		3200	Course PSC	S.W.
		3300	Lat. 31° 31' N.	
		3400	Long. 129° 25' 30 E.	
		3500	Tsurikake Saki Lt.	
		3600	<del>14.8 mi.</del>	
		3700	14.8 mi.	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4916* Date *June 10, 1881*  
*Sigsbee* Machine. Reel.  
 Turns *8* Cor. + *2* Depth *10*  
 Shot or lead *35*  
 Bottom *gy S Glob.*  
 Bottom temperature  
 No. of thermometer Cor. *-0.7*  
 Corrected temperature *27.7°*  
 Air *88* Surface *78* Drift  
 Trawl or dredge *Y. D.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7 40</i>	<i>5 10</i>	0	<i>8</i>	<i>5 10</i>
		100		<i>5 12</i>
		200		<i>5 14</i>
		300		<i>5 16</i>
		400		<i>5 18</i>
		500		<i>5 20</i>
		600		<i>5 22</i>
		700		<i>5 24</i>
		800		<i>5 26</i>
		900		<i>5 28</i>
		1000		<i>5 30</i>
		1100		<i>5 32</i>
		1200		<i>5 34</i>
		1300		<i>5 36</i>
		1400		<i>5 38</i>
		1500		<i>5 40</i>
		1600		<i>5 42</i>
		1700		<i>5 44</i>
		1800		<i>5 46</i>
		1900		<i>5 48</i>
		2000		<i>5 50</i>
		2100		<i>5 52</i>
		2200		<i>5 54</i>
		2300		<i>5 56</i>
		2400		<i>5 58</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>T. L.</i>	<i>446</i>
		2600		<i>60-2</i>
		2700		<i>1111-2</i>
		2800		
		2900		
		3000		
		3100		<i>W</i>
		3200		
		3300		
		3400		<i>1200. 11'</i>
		3500		<i>1</i>
		3600	<i>T. L. Shing</i>	
		3700		<i>&lt;time&gt;</i>
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 4917 Date 1-1

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 91 Surface 4 DriftTrawl or dredge Q

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	1. 1/2	—
		2600	1. 1/2	—
		2700	1. 1/2	W-11'N 2
		2800	1. 1/2	S
		2900	1. 1/2	2
		3000	1. 1/2	184
		3100	1. 1/2	N.W.
		3200	1. 1/2	40 21
		3300	1. 1/2	30° 21' N
		3400	1. 1/2	129° 06' E
		3500	1. 1/2	1
		3600	1. 1/2	1. 1/2
		3700	1. 1/2	39° E (true)
		3800	1. 1/2	dist 3.2 m
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *174918*Date *13 Aug*

Machine.

Reel. *1*Turns *22* Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *95.0* Surface *84.0* DriftTrawl or dredge *9 ft*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		<i>2 1/2</i>
		100		<i>2 53</i>
		200		<i>2 53</i>
		300		<i>1 53</i>
		400		<i>1 53</i>
		500		<i>1 53</i>
		600		<i>1 53</i>
		700		<i>1 53</i>
		800		<i>1 53</i>
		900		<i>1 53</i>
		1000		<i>1 53</i>
		1100		<i>1 53</i>
		1200		<i>1 53</i>
		1300		<i>1 53</i>
		1400		<i>1 53</i>
		1500		<i>1 53</i>
		1600		<i>1 53</i>
		1700		<i>1 53</i>
		1800		<i>1 53</i>
		1900		<i>1 53</i>
		2000		<i>1 53</i>
		2100		<i>1 53</i>
		2200		<i>1 53</i>
		2300		<i>1 53</i>
		2400		<i>1 53</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

507

No. *D. 4919* Date *Aug 13*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth  
 Shot or lead *35<sup>lb</sup> & 150 lb Cu*  
 Bottom  
 Bottom temperature *42.0*  
 No. of thermometer *108019* Cor. *-.2°*  
 Corrected temperature *41.8*  
 Air *85°* Surface *84°* Drift  
 Trawl or dredge *9'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. <i>P.M.</i>	UP.		DOWN. <i>A.M.</i>	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		129° 19' 30" E
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
50		x		x
100		x		x
150		x		x
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

x

T.C. sounding machine.

10 - 0.3 13.9°

- 0.2 13.8°

- 0.2 13.8°

No. *11* Date *11-10-23*  
 Machine. *Reel.*  
 Turns *2* Cor. + *20 f.* Depth *220 f.*  
 Shot or lead  
 Bottom  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		4.20.00
		100		21.25
		200		19.40
		300		16.45
		400		13.25
		500		11.00
		600		08.00
		700		04.35
		800		4.02.40
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		130. S. F.
		3100		
		3200		30' 30"
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Contd.

No. D. 4670 Date 13 Aug 1882

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sdg.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 88° Surface 85° Drift

Trawl or dredge No 1 Trawl

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4.20.30	5.11.00
		100	37.30	05.55
		200	35.15	05.10
		300	37.00	5.02.30
		400	4.42.30	4.50.40
		500		
		600	End 20 min.	
		700	at 10 min.	
		800	at 10 min.	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	bc. a.
		2700	Wind	111.5.
		2800	Current	8.
		2900	Bar.	29.71
		3000	Ther. att'd.	86°
		3100	Chart	H.O. 2194.
		3200	Course PSC	S.W.
		3300	Lat.}	and Bearings, as at beginning of station.
		3400	Long.}	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 492,

Date 13 Aug

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

No Sdg.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	Out	
		100		12.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4922*Date *Mar*

Machine.

Reel. *2*

Turns

Cor. +

Depth *60*Shot or lead *35*Bottom *Co.*Bottom temperature *79.5*No. of thermometer *108019*Cor. - *3°*Corrected temperature *79.2*Air *87°* Surface *84°* DriftTrawl or dredge *8'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300	<i>Stop. Reel in.</i>	
		3400		
		3500		
		3600	<i>Reel in. Right tangent S. 36° 10' (W)</i>	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Note:— The positions of stations D4922, D4923, H. 4881, H. 4882, H. 4883 are given by true bearings as observed on each station. The variation used is 4° 43' W, instead of 3° 35' West, as given on H. C. Chart 2116, the former variation being the result of the determination made by sounding ship under favorable conditions in this vicinity, on August 12, 06. These bearings do not plot on</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

H. C. Chart REMARKS: *54 ft. swing  
to charts inaccuracy.  
(Navigator)*

*Lucas*  
 No. *D. 4923* Date *Aug. 14, 1900*  
*Lucas* Machine. Reel *Lucas*  
 Turns Cor.+ Depth *273 fath.*  
 Shot or lead *33" & Sigbee cup*  
 Bottom *Spec. insufficient for identification*  
 Bottom temperature *46.8°*  
 No. of thermometer *105019* Cor. *-.2°*  
 Corrected temperature *46.6°*  
 Air *87°* Surface *84°* Drift  
 Trawl or dredge *8' Bk. Wb.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8-48-55</i>	<i>8-54-3</i>	0	<i>9-21</i>	
<i>49-15</i>	<i>5</i>	100		
<i>0-45</i>	<i>53-10</i>	200		
<i>8-51-25</i>	<i>8-5</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000	<i>Lost net. Broken floats, 450 fms. main rope, etc.</i>	
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

#### REMARKS:

White Sulphur Lake at 2-17

No. H 4881

Date Aug 12, 1881

Lucas

Machine.

Reel.

Turns

Cor. +

Depth 300

Shot or lead 35

Bottom Co. S., brk. sh.

Bottom temperature 44.5

No. of thermometer 108155 Cor. - 0.2

Corrected temperature 44.0

Air 99° Surface 85° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
1		100		
		200		
1		300		
1		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Chart	
		2700		
		2800	Blake Reef	
		2900	rock) 17° 40' (tr).	
		3000		
		3100	Kuchino Id. N. I.,	
		3200	S. 17° 40' (tr);	
		3300	Nagada Is. N. I.,	
		3400	77 48 1/2° E (true)	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *H 4882* Date *Aug.*  
*Lucas* Machine. Reel *Luc.*  
 Turns Cor. + Depth *248*  
 Shot ~~or lead~~ *35 lb*  
 Bottom *Co S, bk Sh, Y.*  
 Bottom temperature *49.*  
 No. of thermometer *108155* Cor. ...  
 Corrected temperature *48.8*  
 Air *99°* Surface *85°* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		<del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		200
		2600	Shel, 1: 56 5/9 d	
		2700		
		2800	Shelley (largest)	
		2900	Shelley (largest)	
		3000		
		3100	Shelley (largest)	
		3200	Shelley (largest)	
		3300	Nagade (largest)	
		3400	Shelley (largest)	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *H 4883*

Date

*Aug. 14, 1906*

Machine.

Reel

*Lucas*

Turns

Cor. +

Depth

Shot ~~or lead~~ *35<sup>lb</sup> & Lippe Cu*

Bottom

Bottom temperature *79.4*No. of thermometer *108155-*Cor. - *0.2*Corrected temperature *79.*Air *99°*Surface *85°*

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		1.3
		2600		4.6. 2194.
		2700		
		2800		Reef (larger
		2900		South (tr).
		3000		
		3100		Kuchino Id., N. I.
		3200		S. 32° W (tr);
		3300		Nagada Saki Id.,
		3400		N. 35° E. (tr)
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. D 4924. Date 14 Aug. 1906.

Lucas Machine. Reel. Lucas.

Turns Cor.+ Depth 159 fms.

Shot or lead 35-lb &amp; S.S. Cup

Bottom no sp. obtd. — rky. as evidenced

Bottom temperature 51.0 by accumulator

No. of thermometer 108155 Cor. — .2

Corrected temperature 55.8°

Air 93° Surface 86° Drift

Trawl or dredge 8 Tangles.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.50	1.00.15	0	1.00	
1.00	09.15	100	11.00	
1.00	1.00.45	200	10.00	
		300	17.00	1.00.00
		400	1.10.30	1.00.00
After 350 fms. wire out Hauled out a 150 lbs. rubber a 100 lbs. rubber a to 1/2 tons. Trawl 100 lbs. rubber a to 1/2 tons. Trawl Had to reel out at times, accumulator nearly full. Wire at gradually and with 100 lbs. wire 200 lbs. wire (x) 100 lbs. wire 100 lbs. wire but further could not be hauled.		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	(P.C.)	15.0
		2600	Weather	bc. 3
		2700	Wind	Calm.
		2800	Sea	8
		2900		20.22
		3000		
		3100	Chart	H.O. 219.
		3200		
		3300	Lat. 30° 05' N.	
		3400	Long. 130° 21' 20" E.	
		3500	Nagada Saki N 80° E	
		3600	(br). Dist. 18 miles.	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4925* Date *14 Aug. 1906.*Lucas Machine. Reel. *Lucas*Turns Cor.+ Depth *165 fms.*Shot or lead *35-lb and S.S. Cyp.*Bottom *co. S. bk. Sp.*Bottom temperature *53.7°*No. of thermometer *108155.* Cor. —, *2*Corrected temperature *53.5°*Air *106°* Surface *85°* DriftTrawl or dredge *9' Agassiz.*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>2.46.25</i>	<i>2.50.30</i>	0	<i>2.54.40</i>	<i>3.37.50</i>
<i>47.40</i>	<i>48.15</i>	100	<i>52.20</i>	<i>3.15</i>
<i>2.47.30</i>	<i>2.49.10</i>	<i>155</i> 200	<i>3.00.20</i>	<i>3.00</i>
		300	<i>05.40</i>	<i>21.55</i>
		400	<i>3.05.45</i>	<i>3.25.45</i>
		500		
		600	<i>20 min.</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	22.5
		2600	Weather	be 4.
		2700	Wind	Var. 0-1.
		2800		S.
		2900	Bar.	29.70
		3000	Ther. at.	86°
		3100	Current	150 3.44.
		3200	Current SC.	SE - South
		3300		
		3400		
		3500		
		3600	Ct. N 20 1/2 W. (tr.)	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4926.* Date *14*

Machine. Reel.

Turns Cor.+ Depth *165* wt.

Shot or lead

Bottom *No Sdg.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *106°* Surface *85°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>5.12.10</i>	<i>7.14.10</i>
		100	<i>5.13.00</i>	<i>7.15.00</i>
		200	<i>5.13.50</i>	<i>7.15.50</i>
		300	<i>5.14.40</i>	<i>7.16.40</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	
		2700	Wind	
		2800	Sea	
		2900	Bar.	as D. 4925.
		3000	Ther. at d.	
		3100	Chart	N O 2194
		3200	Course PSC	S
		3300		
		3400	Long.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 4921 Date 14 Aug 01

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *10,477* Date *1/1*Machine. Reel. *1*

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *8.5°* Surface *8.5°* DriftTrawl or dredge *Lucyall #1 from 1000 fms. K's #2 and #3 towing astern*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. <i>P.M.</i>	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *4928*, Date *15 Aug. 1906.**Lucas* Machine. Reel. *Zuccis*Turns Cor.+ Depth *1008 fms.*Shot or lead *35-lb & S.S. Cus.*Bottom *gy. S. Gbb.*Bottom temperature *36.9°*No. of thermometer *108155.* Cor. *— . 1*Corrected temperature *36.8°*Air *83°* Surface *85°* DriftTrawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>T. 46.10</i>	<i>8.06.20</i>	0	<i>8.11.45</i>	<i>10.20.50</i>
<i>46.55</i>	<i>05.20</i>	100	<i>14.25</i>	<i>17.50</i>
<i>47.50</i>	<i>04.35</i>	200	<i>17.20</i>	<i>16.50</i>
<i>48.50</i>	<i>03.50</i>	300	<i>20.25</i>	<i>15.50</i>
<i>49.50</i>	<i>03.00</i>	400	<i>23.30</i>	<i>09.45</i>
	<i>02.10</i>	500	<i>26.35</i>	<i>08.45</i>
	<i>01.20</i>	600	<i>29.40</i>	<i>10.01.30</i>
<i>52.45</i>	<i>8.00.30</i>	700	<i>32.40</i>	<i>09.40</i>
<i>53.50</i>	<i>59.40</i>	800	<i>35.40</i>	<i>08.40</i>
<i>54.55</i>	<i>58.40</i>	900	<i>38.40</i>	<i>07.40</i>
<i>56.10</i>	<i>57.30</i>	1000	<i>41.40</i>	<i>06.40</i>
<i>T. 56.20</i>	<i>7.57.10</i>	<i>1008</i> 1100	<i>44.40</i>	<i>05.40</i>
		1200	<i>47.40</i>	<i>04.40</i>
		1300	<i>50.40</i>	<i>03.40</i>
		1400	<i>53.40</i>	<i>02.40</i>
		1450	<i>56.40</i>	<i>01.40</i>
		1500	<i>59.40</i>	<i>00.40</i>
		1600	<i>62.40</i>	<i>29.40</i>
		1700	<i>65.40</i>	<i>28.40</i>
		1800	<i>68.40</i>	<i>27.40</i>
		1900	<i>71.40</i>	<i>26.40</i>
		2000	<i>74.40</i>	<i>25.40</i>
		2100	<i>77.40</i>	<i>24.40</i>
		2200	<i>80.40</i>	<i>23.40</i>
		2300	<i>83.40</i>	<i>22.40</i>
		2400	<i>86.40</i>	<i>21.40</i>

Strong Current setting to  
SE. & W. 2.experimented while  
sounding and dredg-  
ing. —



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	tem 9.
		2700	Wind	NW: 1.
		2800	Sea	S.
		2900		29.76
		3000		35°
		3100		40.2 124.
		3200		41.15 125.
		3300	Lat. 29° 51' N.	
		3400	Long. 102° 30' E.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

Contd.

No.

D. 4928

Date

15 June 06.

Machine.

Reel.

Turns.

Cor. +

Depth

Shot or lead

Bottom

No Sdg.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

87°

Surface

84°

Drift

Trawl or dredge Inter No. 1. 2 Kfd. Nos 2 &amp; 3.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.29.30	11.12.00
		100	32.10	04.00
		200	35.00	06.10
		300	37.40	03.15
		400	10 40.20	11.00.20
		500	5 20 min.	
		600	approximate	
		700	depth of 300 fms.	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700	Wind	NW. 1.
		2800	Sea	S.
		2900	Bar.	29.77
		3000	Ther. at d.	84°
		3100	Chart	250. 1. 12. 1.
		3200	Course P.S.C.	South.
		3300	Lat.	} as at beginning of station.
		3400	Long.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

#### REMARKS:

Terrible weather: beach, '05!

No. *D 4929* Date *15 Aug 06*  
*TN* Machine. Reel. *TN*  
 Turns. Cor. + *352* Depth *814*  
 Shot or lead *352* *Lead*  
 Bottom *gy. m.*  
 Bottom temperature *70*  
 No. of thermometer *108155* Cor. *- 0.2*  
 Corrected temperature *74.8*  
 Air *72* Surface *86* Drift  
 Trawl or dredge *1' Van Dine*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2 57.30</i>	<i>300.00</i>	<i>0</i>	<i>3.3.50</i>	<i>46.00</i>
	<i>299.20</i>	<i>100</i>	<i>3.3.50</i>	<i>3.3.50</i>
	<i>298.40</i>	<i>150</i>	<i>3.3.50</i>	<i>3.3.50</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *4930*Date *2 1*

Machine.

Reel.

Turns.

Cor. +

Depth *End*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *91°*Surface *86°*

Drift

Trawl or dredge *9 ft. 4*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>3.51.104</i>	
		100		
		<i>130</i>		
		<del>200</del>	<i>3-55</i>	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *20.4931* Date *Aug. 15/0*Machine. Reel. *V. 1. H.*Turns Cor.+ Depth *88*Shot or lead *35-lb & signal cup*Bottom *bk. sh. v.*Bottom temperature *75.5*No. of thermometer *08155* Cor. *-.5*Corrected temperature *75.0*Air *91°* Surface *86°* DriftTrawl or dredge *Y*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		50		
		100		
		150		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		11. 86°
		3000		11. 20.
		3100		24. 5. 10. 30
		3200		33. 15. 7.
		3300		13. 12. 4. 15
		3400		7. 5. 30. 4
		3500		China,
		3600		10. 8 mi.
		3700		
		3800		
		3900		
		4000		

. SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1025

REMARKS:

No. *24* Date *Aug. 15, 1881*

Machine. Reel. //

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *85°* Surface *84°* DriftTrawl or dredge *Surface #1 from port-bow*  
*14' #2 & 3 from stern*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	76.7
		2600	Weather 07 - 1.0	
		2700	Wind 1.0	
		2800		
		2900	Bar 29.72	
		3000	Ther. att. 82°	
		3100	Lat 50° 29' 30" N.	
		3200	Long 130° 45' E.	
		3300		
		3400		
		3500		
		3600	Date March 11.	
		3700	7 fath. 30.5	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4933* Date *16 Apr. 1906.*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor. + Depth *152 fms.*  
 Shot or lead *35-lb & S. S. Comp.*  
 Bottom *ry.*  
 Bottom temperature *56.2°*  
 No. of thermometer *108155* Cor. - *2*  
 Corrected temperature *56.0°*  
 Air *84°* Surface *84°* Drift  
 Trawl or dredge *8 fms.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.44.15</i>	<i>7.48.00</i>	0		
<i>45.10</i>	<i>47.05</i>	100		
<i>7.48.45</i>	<i>7.46.30</i>	<i>152</i> 200	<i>8.00.15</i>	<i>20.15</i>
		300	<i>8.03.00</i>	<i>8.23.15</i>
		400		
		500	<i>= 20 min.</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		023.9.
		2700		SW. 3.
		2800		S.
		2900		29.68
		3000		8
		3100		H.O. 2194.
		3200		C. South.
		3300		30° 57' N.
		3400		Long. 130° 29' 50" E.
		3500		Sata Misaki Lt.
		3600		N. 84° E. dist. 8.5 mi.
		3700		
		3800		x (true)
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4934*, Date *16 Aug. 06.*

Machine. Reel.

Turns Cor.+ Depth *152*

Shot or lead

Bottom

Bottom temperature

*No. 529.*

No. of thermometer

Cor.

Corrected temperature

Air *84°* Surface *84°* Drift

Trawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>8.45.15</i>	<i>9.22.</i>
		100	<i>12.00</i>	<i>20</i>
		200	<i>15.00</i>	<i>12.00</i>
		300	<i>18.00</i>	<i>15.00</i>
		400	<i>21.00</i>	<i>18.00</i>
		500		
		600	<i>= 20 min.</i>	
		700		
		800	<i>haul.</i>	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900	Bar.	10 D. 4933.
		3000	Ther. std.	
		3100	Chart	N.C. 2194
		3200	Course P.S.C.	South
		3300		
		3400	Long. 130° 32' E.	
		3500	Sata Misaki Lt.	
		3600	N 77 1/2 E (tr.), dist 7 m.	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-10-03

REMARKS:

No. *D. 4935.* Date *16 Aug. 06.*  
*> Lucas* Machine. Reel. *Lucas.*  
 Turns Cor.+ Depth *103 fms.*  
 Shot or lead *35-lb and S. S. Cup.*  
 Bottom *St.*  
 Bottom temperature *60.8°*  
 No. of thermometer *108155.* Cor. *- . 2*  
 Corrected temperature *60.6°*  
 Air *85°* Surface *84°* Drift  
 Trawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9. 41.35</i>	<i>9. 40.25</i>	0	<i>9. 41.35</i>	<i>9. 40.25</i>
<i>42.25</i>	<i>43.27</i>	100	<i>52.10</i>	<i>41.10</i>
<i>42.77</i>	<i>9. 43.26</i>	200	<i>50.00</i>	<i>18.45</i>
		300	<i>9. 53.25</i>	<i>10. 4.25</i>
		400		
		500		<i>= 20 min.</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		6m
		2700		WSW. 3-4.
		2800		S.
		2900		29.70
		3000		
		3100	Chart	No. 2187.
		3200	Course	PSC South
		3300		
		3400	Long.	130° 35' 10" E.
		3500	Sata Misaki Lt.	
		3600	N 58° E (tr.)	dist. 4.5 m.
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1021

REMARKS:

No. *D. 4936.* Date *16 Aug. 06.*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom *740 Sdy.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *85°* Surface *84°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10.30</i>	<i>11.14.55</i>
		100	<i>10.32</i>	<i>11.15.00</i>
		200	<i>10.34</i>	<i>11.15.05</i>
		300	<i>10.46.35</i>	<i>11.06.30</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Bar. .8
		2700	Wind	WSW. 3-4.
		2800	Sea	S.
		2900	Bar.	29.70
		3000	Ther. rtd.	'86°
		3100		
		3200	Course, P.S.C.	S. — W.
		3300	Lat. 30° 54' 40" N.	
		3400	Long. 130° 37' 30" E.	
		3500	Sata Misaki Lt. N 21° E	
		3600	(to), dist. 5.7 miles.	
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *H 143* Date \_\_\_\_\_  
*TN* Machine. Reel. *TN*  
 Turns \_\_\_\_\_ Cor. + *-H* Depth *58*  
 Shot or lead *32* *Light* *cu*  
 Bottom \_\_\_\_\_  
 Bottom temperature *0.8*  
 No. of thermometer *106155* Cor. - *0.2*  
 Corrected temperature *64.8*  
 Air *87* Surface *84* Drift \_\_\_\_\_  
 Trawl or dredge *9 ft Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.02.00</i>	<i>06.10</i>	0	<i>2.01.50</i>	<i>31.50</i>
<i>20 2.02.35</i>	<i>17</i>	100	<i>09.50</i>	<i>33.45</i>
		200	<i>12.10</i>	<i>2.22.21</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *4939* Date *6 Aug 06*

Machine.

Reel.

Turns

Cor. +

Depth Chart *85-*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	1	
		2600	2000	10261
		2700		
		2800		
		2900		
		3000		87
		3100		7.5 - 8.
		3200		7.5
		3300		7.5
		3400		7.5
		3500		
		3600		Chirine from Δ
		3700		27 <sup>00</sup> 2.0 mi.
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *15*, Date *15*  
*Lucas* Machine. Reel. *Lucas*  
 Turns Cor.+ Depth *115 fms.*  
 Shot or lead *35-lb and S.S. C.*  
 Bottom *bn. M. bk. S.S.*  
 Bottom temperature *60°*  
 No. of thermometer *108153* Cor. *— 2*  
 Corrected temperature *59.8*  
 Air *86°* Surface *8°* Drift  
 Trawl or dredge *9' Agassiz*

*Am.* SOUNDING WIRE.

DOWN.	UP.
<i>7.58.05</i>	<i>7.58.05</i>
<i>7.58.10</i>	<i>7.58.10</i>
<i>7.58.15</i>	<i>7.58.15</i>
<i>7.58.20</i>	<i>7.58.20</i>
<i>7.58.25</i>	<i>7.58.25</i>
<i>7.58.30</i>	<i>7.58.30</i>
<i>7.58.35</i>	<i>7.58.35</i>
<i>7.58.40</i>	<i>7.58.40</i>
<i>7.58.45</i>	<i>7.58.45</i>
<i>7.58.50</i>	<i>7.58.50</i>
<i>7.58.55</i>	<i>7.58.55</i>
<i>7.59.00</i>	<i>7.59.00</i>
<i>7.59.05</i>	<i>7.59.05</i>
<i>7.59.10</i>	<i>7.59.10</i>
<i>7.59.15</i>	<i>7.59.15</i>
<i>7.59.20</i>	<i>7.59.20</i>
<i>7.59.25</i>	<i>7.59.25</i>
<i>7.59.30</i>	<i>7.59.30</i>
<i>7.59.35</i>	<i>7.59.35</i>
<i>7.59.40</i>	<i>7.59.40</i>
<i>7.59.45</i>	<i>7.59.45</i>
<i>7.59.50</i>	<i>7.59.50</i>
<i>7.59.55</i>	<i>7.59.55</i>
<i>7.60.00</i>	<i>7.60.00</i>
<i>7.60.05</i>	<i>7.60.05</i>
<i>7.60.10</i>	<i>7.60.10</i>
<i>7.60.15</i>	<i>7.60.15</i>
<i>7.60.20</i>	<i>7.60.20</i>
<i>7.60.25</i>	<i>7.60.25</i>
<i>7.60.30</i>	<i>7.60.30</i>
<i>7.60.35</i>	<i>7.60.35</i>
<i>7.60.40</i>	<i>7.60.40</i>
<i>7.60.45</i>	<i>7.60.45</i>
<i>7.60.50</i>	<i>7.60.50</i>
<i>7.60.55</i>	<i>7.60.55</i>
<i>7.61.00</i>	<i>7.61.00</i>
<i>7.61.05</i>	<i>7.61.05</i>
<i>7.61.10</i>	<i>7.61.10</i>
<i>7.61.15</i>	<i>7.61.15</i>
<i>7.61.20</i>	<i>7.61.20</i>
<i>7.61.25</i>	<i>7.61.25</i>
<i>7.61.30</i>	<i>7.61.30</i>
<i>7.61.35</i>	<i>7.61.35</i>
<i>7.61.40</i>	<i>7.61.40</i>
<i>7.61.45</i>	<i>7.61.45</i>
<i>7.61.50</i>	<i>7.61.50</i>
<i>7.61.55</i>	<i>7.61.55</i>
<i>7.62.00</i>	<i>7.62.00</i>
<i>7.62.05</i>	<i>7.62.05</i>
<i>7.62.10</i>	<i>7.62.10</i>
<i>7.62.15</i>	<i>7.62.15</i>
<i>7.62.20</i>	<i>7.62.20</i>
<i>7.62.25</i>	<i>7.62.25</i>
<i>7.62.30</i>	<i>7.62.30</i>
<i>7.62.35</i>	<i>7.62.35</i>
<i>7.62.40</i>	<i>7.62.40</i>
<i>7.62.45</i>	<i>7.62.45</i>
<i>7.62.50</i>	<i>7.62.50</i>
<i>7.62.55</i>	<i>7.62.55</i>
<i>7.63.00</i>	<i>7.63.00</i>
<i>7.63.05</i>	<i>7.63.05</i>
<i>7.63.10</i>	<i>7.63.10</i>
<i>7.63.15</i>	<i>7.63.15</i>
<i>7.63.20</i>	<i>7.63.20</i>
<i>7.63.25</i>	<i>7.63.25</i>
<i>7.63.30</i>	<i>7.63.30</i>
<i>7.63.35</i>	<i>7.63.35</i>
<i>7.63.40</i>	<i>7.63.40</i>
<i>7.63.45</i>	<i>7.63.45</i>
<i>7.63.50</i>	<i>7.63.50</i>
<i>7.63.55</i>	<i>7.63.55</i>
<i>7.64.00</i>	<i>7.64.00</i>
<i>7.64.05</i>	<i>7.64.05</i>
<i>7.64.10</i>	<i>7.64.10</i>
<i>7.64.15</i>	<i>7.64.15</i>
<i>7.64.20</i>	<i>7.64.20</i>
<i>7.64.25</i>	<i>7.64.25</i>
<i>7.64.30</i>	<i>7.64.30</i>
<i>7.64.35</i>	<i>7.64.35</i>
<i>7.64.40</i>	<i>7.64.40</i>
<i>7.64.45</i>	<i>7.64.45</i>
<i>7.64.50</i>	<i>7.64.50</i>
<i>7.64.55</i>	<i>7.64.55</i>
<i>7.65.00</i>	<i>7.65.00</i>
<i>7.65.05</i>	<i>7.65.05</i>
<i>7.65.10</i>	<i>7.65.10</i>
<i>7.65.15</i>	<i>7.65.15</i>
<i>7.65.20</i>	<i>7.65.20</i>
<i>7.65.25</i>	<i>7.65.25</i>
<i>7.65.30</i>	<i>7.65.30</i>
<i>7.65.35</i>	<i>7.65.35</i>
<i>7.65.40</i>	<i>7.65.40</i>
<i>7.65.45</i>	<i>7.65.45</i>
<i>7.65.50</i>	<i>7.65.50</i>
<i>7.65.55</i>	<i>7.65.55</i>
<i>7.66.00</i>	<i>7.66.00</i>
<i>7.66.05</i>	<i>7.66.05</i>
<i>7.66.10</i>	<i>7.66.10</i>
<i>7.66.15</i>	<i>7.66.15</i>
<i>7.66.20</i>	<i>7.66.20</i>
<i>7.66.25</i>	<i>7.66.25</i>
<i>7.66.30</i>	<i>7.66.30</i>
<i>7.66.35</i>	<i>7.66.35</i>
<i>7.66.40</i>	<i>7.66.40</i>
<i>7.66.45</i>	<i>7.66.45</i>
<i>7.66.50</i>	<i>7.66.50</i>
<i>7.66.55</i>	<i>7.66.55</i>
<i>7.67.00</i>	<i>7.67.00</i>
<i>7.67.05</i>	<i>7.67.05</i>
<i>7.67.10</i>	<i>7.67.10</i>
<i>7.67.15</i>	<i>7.67.15</i>
<i>7.67.20</i>	<i>7.67.20</i>
<i>7.67.25</i>	<i>7.67.25</i>
<i>7.67.30</i>	<i>7.67.30</i>
<i>7.67.35</i>	<i>7.67.35</i>
<i>7.67.40</i>	<i>7.67.40</i>
<i>7.67.45</i>	<i>7.67.45</i>
<i>7.67.50</i>	<i>7.67.50</i>
<i>7.67.55</i>	<i>7.67.55</i>
<i>7.68.00</i>	<i>7.68.00</i>
<i>7.68.05</i>	<i>7.68.05</i>
<i>7.68.10</i>	<i>7.68.10</i>
<i>7.68.15</i>	<i>7.68.15</i>
<i>7.68.20</i>	<i>7.68.20</i>
<i>7.68.25</i>	<i>7.68.25</i>
<i>7.68.30</i>	<i>7.68.30</i>
<i>7.68.35</i>	<i>7.68.35</i>
<i>7.68.40</i>	<i>7.68.40</i>
<i>7.68.45</i>	<i>7.68.45</i>
<i>7.68.50</i>	<i>7.68.50</i>
<i>7.68.55</i>	<i>7.68.55</i>
<i>7.69.00</i>	<i>7.69.00</i>
<i>7.69.05</i>	<i>7.69.05</i>
<i>7.69.10</i>	<i>7.69.10</i>
<i>7.69.15</i>	<i>7.69.15</i>
<i>7.69.20</i>	<i>7.69.20</i>
<i>7.69.25</i>	<i>7.69.25</i>
<i>7.69.30</i>	<i>7.69.30</i>
<i>7.69.35</i>	<i>7.69.35</i>
<i>7.69.40</i>	<i>7.69.40</i>
<i>7.69.45</i>	<i>7.69.45</i>
<i>7.69.50</i>	<i>7.69.50</i>
<i>7.69.55</i>	<i>7.69.55</i>
<i>7.70.00</i>	<i>7.70.00</i>
<i>7.70.05</i>	<i>7.70.05</i>
<i>7.70.10</i>	<i>7.70.10</i>
<i>7.70.15</i>	<i>7.70.15</i>
<i>7.70.20</i>	<i>7.70.20</i>
<i>7.70.25</i>	<i>7.70.25</i>
<i>7.70.30</i>	<i>7.70.30</i>
<i>7.70.35</i>	<i>7.70.35</i>
<i>7.70.40</i>	<i>7.70.40</i>
<i>7.70.45</i>	<i>7.70.45</i>
<i>7.70.50</i>	<i>7.70.50</i>
<i>7.70.55</i>	<i>7.70.55</i>
<i>7.71.00</i>	<i>7.71.00</i>
<i>7.71.05</i>	<i>7.71.05</i>
<i>7.71.10</i>	<i>7.71.10</i>
<i>7.71.15</i>	<i>7.71.15</i>
<i>7.71.20</i>	<i>7.71.20</i>
<i>7.71.25</i>	<i>7.71.25</i>
<i>7.71.30</i>	<i>7.71.30</i>
<i>7.71.35</i>	<i>7.71.35</i>
<i>7.71.40</i>	<i>7.71.40</i>
<i>7.71.45</i>	<i>7.71.45</i>
<i>7.71.50</i>	<i>7.71.50</i>
<i>7.71.55</i>	<i>7.71.55</i>
<i>7.72.00</i>	<i>7.72.00</i>
<i>7.72.05</i>	<i>7.72.05</i>
<i>7.72.10</i>	<i>7.72.10</i>
<i>7.72.15</i>	<i>7.72.15</i>
<i>7.72.20</i>	<i>7.72.20</i>
<i>7.72.25</i>	<i>7.72.25</i>
<i>7.72.30</i>	<i>7.72.30</i>
<i>7.72.35</i>	<i>7.72.35</i>
<i>7.72.40</i>	<i>7.72.40</i>
<i>7.72.45</i>	<i>7.72.45</i>
<i>7.72.50</i>	<i>7.72.50</i>
<i>7.72.55</i>	<i>7.72.55</i>
<i>7.73.00</i>	<i>7.73.00</i>
<i>7.73.05</i>	<i>7.73.05</i>
<i>7.73.10</i>	<i>7.73.10</i>
<i>7.73.15</i>	<i>7.73.15</i>
<i>7.73.20</i>	<i>7.73.20</i>
<i>7.73.25</i>	<i>7.73.25</i>
<i>7.73.30</i>	<i>7.73.30</i>
<i>7.73.35</i>	<i>7.73.35</i>
<i>7.73.40</i>	<i>7.73.40</i>
<i>7.73.45</i>	<i>7.73.45</i>
<i>7.73.50</i>	<i>7.73.50</i>
<i>7.73.55</i>	<i>7.73.55</i>
<i>7.74.00</i>	<i>7.74.00</i>
<i>7.74.05</i>	<i>7.74.05</i>
<i>7.74.10</i>	<i>7.74.10</i>
<i>7.74.15</i>	<i>7.74.15</i>
<i>7.74.20</i>	<i>7.74.20</i>
<i>7.74.25</i>	<i>7.74.25</i>
<i>7.74.30</i>	<i>7.74.30</i>
<i>7.74.35</i>	<i>7.74.35</i>
<i>7.74.40</i>	<i>7.74.40</i>
<i>7.74.45</i>	<i>7.74.45</i>
<i>7.74.50</i>	<i>7.74.50</i>
<i>7.74.55</i>	<i>7.74.55</i>
<i>7.75.00</i>	<i>7.75.00</i>
<i>7.75.05</i>	<i>7.75.05</i>
<i>7.75.10</i>	<i>7.75.10</i>
<i>7.75.15</i>	<i>7.75.15</i>
<i>7.75.20</i>	<i>7.75.20</i>
<i>7.75.25</i>	<i>7.75.25</i>
<i>7.75.30</i>	<i>7.75.30</i>
<i>7.75.35</i>	<i>7.75.35</i>
<i>7.75.40</i>	<i>7.75.40</i>
<i>7.75.45</i>	<i>7.75.45</i>
<i>7.75.50</i>	<i>7.75.50</i>
<i>7.75.55</i>	<i>7.75.55</i>
<i>7.76.00</i>	<i>7.76.00</i>
<i>7.76.05</i>	<i>7.76.05</i>
<i>7.76.10</i>	<i>7.76.10</i>
<i>7.76.15</i>	<i>7.76.15</i>
<i>7.76.20</i>	<i>7.76.20</i>
<i>7.76.25</i>	<i>7.76.25</i>
<i>7.76.30</i>	<i>7.76.30</i>
<i>7.76.35</i>	<i>7.76.35</i>
<i>7.76.40</i>	<i>7.76.40</i>
<i>7.76.45</i>	<i>7.76.45</i>
<i>7.76.50</i>	<i>7.76.50</i>
<i>7.76.55</i>	<i>7.76.55</i>
<i>7.77.00</i>	<i>7.77.00</i>
<i>7.77.05</i>	<i>7.77.05</i>
<i>7.77.10</i>	<i>7.77.10</i>
<i>7.77.15</i>	<i>7.77.15</i>
<i>7.77.20</i>	<i>7.77.20</i>
<i>7.77.25</i>	<i>7.77.25</i>
<i>7.77.30</i>	<i>7.77.30</i>
<i>7.77.35</i>	<i>7.77.35</i>
<i>7.77.40</i>	<i>7.77.40</i>
<i>7.77.45</i>	<i>7.77.45</i>
<i>7.77.50</i>	<i>7.77.50</i>
<i>7.77.55</i>	<i>7.77.55</i>
<i>7.78.00</i>	<i>7.78.00</i>
<i>7.78.05</i>	<i>7.78.05</i>
<i>7.78.10</i>	<i>7.78.10</i>
<i>7.78.15</i>	<i>7.78.15</i>
<i>7.78.20</i>	<i>7.78.20</i>
<i>7.78.25</i>	<i>7.78.25</i>
<i>7.78.30</i>	<i>7.78.30</i>
<i>7.78.35</i>	<i>7.78.35</i>
<i>7.78.40</i>	<i>7.78.40</i>
<i>7.78.45</i>	<i>7.78.45</i>
<i>7.78.50</i>	<i>7.78.50</i>
<i>7.78.55</i>	<i>7.78.55</i>
<i>7.79.00</i>	<i>7.79.00</i>
<i>7.79.05</i>	<i>7.79.05</i>
<i>7.79.10</i>	<i>7.79.10</i>
<i>7.79.15</i>	<i>7.79.15</i>
<i>7.79.20</i>	<i>7.79.20</i>
<i>7.79.25</i>	<i>7.79.25</i>
<i>7.79.30</i>	<i>7.79.30</i>
<i>7.79.35</i>	<i>7.79.35</i>
<i>7.79.40</i>	<i>7.79.40</i>
<i>7.79.45</i>	<i>7.79.45</i>
<i>7.79.50</i>	<i>7.79.50</i>
<i>7.79.55</i>	<i>7.79.55</i>
<i>7.80.00</i>	<i>7.80.00</i>
<i>7.80.05</i>	<i>7.80.05</i>
<i>7.80.10</i>	<i>7.80.10</i>
<i>7.80.15</i>	<i>7.80.15</i>
<i>7.80.20</i>	<i>7.80.20</i>
<i>7.80.25</i>	<i>7.80.25</i>
<i>7.80.30</i>	<i>7.80.30</i>
<i>7.80.35</i>	<i>7.80.35</i>
<i>7.80.40</i>	<i>7.80.40</i>
<i>7.80.45</i>	<i>7.80.45</i>
<i>7.80.50</i>	<i>7.80.50</i>
<i>7.80.55</i>	<i>7.80.55</i>
<i>7.81.00</i>	<i>7.81.00</i>
<i>7.81.05</i>	<i>7.81.05</i>
<i>7.81.10</i>	<i>7.81.10</i>
<i>7.81.15</i>	<i>7.81.15</i>
<i>7.81.20</i>	<i>7.81.20</i>
<i>7.81.25</i>	<i>7.81.25</i>
<i>7.81.30</i>	<i>7.81.30</i>
<i>7.81.35</i>	<i>7.81.35</i>
<i>7.81.40</i>	<i>7.81.40</i>
<i>7.81.45</i>	<i>7.81.45</i>
<i>7.81.50</i>	<i>7.81.50</i>
<i>7.81.55</i>	<i>7.81.55</i>
<i>7.82.00</i>	<i>7.82.00</i>
<i>7.82.05</i>	<i>7.82.05</i>
<i>7.82.10</i>	<i>7.82.10</i>
<i>7.82.15</i>	<i>7.82.15</i>
<i>7.82.20</i>	<i>7.82.20</i>
<i>7.82.25</i>	<i>7.82.25</i>
<i>7.82.30</i>	<i>7.82.30</i>
<i>7.82.35</i>	<i>7.82.35</i>
<i>7.82.40</i>	<i>7.82.40</i>
<i>7.82.45</i>	<i>7.82.45</i>
<i>7.82.50</i>	<i>7.82.50</i>
<i>7.82.55</i>	<i>7.82.55</i>
<i>7.83.00</i>	<i>7.83.00</i>
<i>7.83.05</i>	<i>7.83.05</i>
<i>7.83.10</i>	<i>7.83.10</i>
<i>7.83.15</i>	<i>7.83.15</i>
<i>7.83.20</i>	<i>7.83.20</i>
<i>7.83.25</i>	<i>7.83.25</i>
<i>7.83.30</i>	<i>7.83.30</i>
<i>7.83.35</i>	<i>7.83.35</i>
<i>7.83.40</i>	<i>7.83.40</i>
<i>7.83.45</i>	<i>7.83.45</i>
<i>7.83.50</i>	<i>7.83.50</i>
<i>7.83.55</i>	<i>7.83.55</i>
<i>7.84.00</i>	<i>7.84.00</i>
<i>7.84.05</i>	<i>7.84.05</i>
<i>7.84.10</i>	<i>7.84.10</i>
<i>7.84.15</i>	<i>7.84.15</i>
<i>7.84.20</i>	<i>7.84.20</i>

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000	Thr. att'd.	
		3100	Chart	
		3200	Course PSC	
		3300	Lat. 31° 22' 10" N.	
		3400	Long. 130° 10' 00" W.	
		3500	C. 100 fms. A	
		3600	S 7° E (tr.), dist.	
		3700	S. 1/2 mile.	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4941*. Date *17 Aug. 06.*

Machine. Reel.

Turns Cor.+ Depth *by haul*Shot or lead *117 fms.*

Bottom

Bottom temperature *No Sounding.*

No. of thermometer Cor.

Corrected temperature

Air *86°* Surface *84°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>5.50</i>	<i>6.15</i>
		100	<i>6.00</i>	<i>6.25</i>
		200	<i>6.10</i>	<i>6.35</i>
		300	<i>6.20</i>	<i>6.45</i>
		400		
		500		
		600		
		700	<i>good haul</i>	<i>again</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700	Wind	
		2800	Sea.	} as D. 4440.
		2900	Bar.	
		3000	Ther. att'd.	
		3100	Chart	
		3200	Course PSC N.N.W.	
		3300	Lat. 31° 22' N.	
		3400	Long. 130° 39' 20" E.	
		3500	Shirin Tinn Δ	
		3600	S 13½° E (tr), dist.	
		3700	5.3 miles.	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4942*. Date *17 Aug. 06.*

Machine. Reel.

Turns Cor.+

Depth *118 fms.*  
*by chart.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *90°* Surface *90°* DriftTrawl or dredge *9' Agassiz.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>12.54.00</i>	<i>12.07.15</i>
		100	<i>12.55.00</i>	<i>01.00</i>
		200	<i>12.56.00</i>	<i>01.00</i>
		300	<i>12.57.00</i>	<i>12.00.00</i>
		400	<i>12.58.00</i>	<i>12.00.00</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Barom 8
		2700	Wind	WSW 2
		2800	Sea	S
		2900	Bar.	29.6
		3000	Ther. att'd.	88°
		3100	Chart	H.O. 2187.
		3200		
		3300	Lat. 31° 23' 10" N	
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1021

REMARKS:

No. *D. 4913.* Date *17 August '90.*

Machine. Reel.

Turns Cor.+ Depth *119 fms.*Shot or lead *by chart*Bottom *No Sounding.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *90°* Surface *84°* DriftTrawl or dredge *9' Agassiz*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10.12.45</i>	<i>10.01.10</i>
		100	<i>10.15.00</i>	<i>10.03.00</i>
		200	<i>12.00</i>	<i>10.05.00</i>
		300	<i>10.17.15</i>	<i>10.07.15</i>
		400		
		500		
		600		
		700	<i>and again!</i>	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	Temp.
		2700	Wind	
		2800	Sea	
		2900	Bar.	as 2600.
		3000	Ther. alt.	
		3100	Chart	
		3200	Course	
		3300		
		3400		
		3500	China	
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4023* Contd. Date *11 Aug. 06.*

Machine. Reel.

Turns Cor.+ Depth *119 fms. by*

Shot or lead *Chart.*

Bottom *No Soundings.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *96°* Surface *84°* Drift

Trawl or dredge *No. 1 / 2, No. 2 & 3 K. G. L.*

SOUNDING WIRE.		TURNS.	Am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>11.09.50</i>	<i>11.16.20</i>
		100	<i>11.30</i>	<i>33.45</i>
		<i>135</i>		
		<i>200</i>	<i>11.17.30</i>	<i>11.32.40</i>
		300		
		400	<i>= 20 min. at an</i>	
		500	<i>approx</i>	
		600	<i>dis</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	± temp. 9.
		2700	Wind	W. 2.
		2800	Sea	S.
		2900		
		3000	Ther. att.	88°
		3100	Chart	H.O. 2187.
		3200	Course	NNE-NE.
		3300	Position	is at former
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 4912*

Date

Machine.

Reel.

Turns

Cor. +

Depth *115*

Shot or lead

Bottom *Mr. S. layer 11*Bottom temperature *64*No. of thermometer *108155* Cor. - *0.2*Corrected temperature *64*Air *84* Surface *84* DriftTrawl or dredge *8 range 6 new*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		Land 8
		2700		10 2 11
		2800		
		2900	200	29. 62
		3000		186
		3100		W
		3200		H-6. 2187
		3300		21° 38' 15" N.
		3400		150° 46' 30" E.
		3500		
		3600	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.	
		3700	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D 4925*Date *17 Aug*

Machine.

Reel. *3.*

Turns

Cor. + *10*Depth *70*Shot or lead *35 lb*Bottom *gn m*Bottom temperature *60.1*No. of thermometer *71242*Cor. - *0.2*Corrected temperature *60.1*Air *69*Surface *84*

Drift

Trawl or dredge *1 H Haa*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		1 0 2.57
		3300		2 38 0.57
		3400		130 0.57
		3500		
		3600		1 0 2.57
		3700		2 38 0.57
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

*Shore collection  
made at Kogoshima*

REMARKS:

No. *N. 4946* Date *Chic**T. N.* Machine. Reel.Turns Cor.+ Depth *39 fath.*Shot ~~or lead~~ *35<sup>lb</sup> & heavier on*Bottom *ss.*

Bottom temperature

No. of thermometer *98274* Cor. *-.3*Corrected temperature *68.7°*Air *89°* Surface *83°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
<i>57-40</i>	<i>8-157-50</i>	<i>100</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D.4947* Date

Machine. Reel.

Turns Cor.+ Depth *571* fath. (Chart)

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *88°* Surface *84°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		/
		100		/
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4948* Date *27 Aug. 06*  
*T. N.* Machine. Reel.

Turns Cor.+ Depth *65 fms.*

Shot or lead *35 lb. S. S. 30 lb. shot*

Bottom *dk. gy. vol. S. bk. S. L. P.*

Bottom temperature *62.8°*

No. of thermometer *108155*. Cor. *-.2*

Corrected temperature *62.6°*

Air *81°* Surface *81°* Drift

Trawl or dredge *9' Agassiz*.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.00.00</i>	<i>8.11.35</i>	0	<i>7.55.00</i>	<i>7.55.00</i>
<i>6.00.50</i>	<i>8.09.52</i>	<i>65.</i> 100	<i>7.50.00</i>	<i>7.50.00</i>
		150	<i>7.45.00</i>	<i>7.45.00</i>
		200	<i>7.40.00</i>	<i>7.40.00</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. 4949. Date 21 Aug.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead 35-lb x S.S.C

Bottom br. S. bk. Sh. Fr.

Bottom temperature 59°

No. of thermometer 108155 Cor. —

Corrected temperature 57.8

Air 82° Surface 82° Drift

Trawl or dredge 9' Agassiz.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>4. L.</i>	<i>4.6</i>
		2600	<i>Weather</i>	<i>Be 2</i>
		2700	<i>Wind</i>	<i>SW 1</i>
		2800	<i>Sea</i>	<i>S. 100</i>
		2900	<i>Bar</i>	<i>29.81</i>
		3000	<i>Ther. at 1000.</i>	<i>84°</i>
		3100	<i>Chart</i>	<i>H.O. 1302.</i>
		3200	<i>Course PSC</i>	<i>S.E.</i>
		3300	<i>Lat. 31° 15' 30" N</i>	
		3400	<i>Long. 131° 29' 30" E</i>	
		3500	<i>0 Skim Light</i>	
		3600	<i>N 13 1/2 W. (to)</i>	
		3700	<i>Dist. 16.0 miles</i>	
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

No. *D. 4950* Date *21 Sep. 06.*  
*I. new* Machine. Reel. *I. new*  
 Turns Cor.+ Depth *550 fms.*  
 Shot or lead *35-lb S.S. Cup.*  
 Bottom  
 Bottom temperature *39.6*  
 No. of thermometer *108155* Cor. *-.1*  
 Corrected temperature *39.5*  
 Air Surface Drift  
 Trawl or dredge

<i>am.</i> SOUNDING WIRE.		TURNS.	<i>am.</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.44.30</i>	<i>10.52.50</i>	0		
<i>45.30</i>	<i>55.45</i>	100		
<i>46.15</i>	<i>55.05</i>	200		
<i>47.10</i>	<i>54.20</i>	300		
<i>48.00</i>	<i>53.40</i>	400		
<i>48.55</i>	<i>52.50</i>	500		
<i>10.49.25</i>	<i>10.51.40</i>	<i>550</i> 600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Cancelled*



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>9.6</i>
		2600	<i>Weather</i>	
		2700	<i>Wind</i>	
		2800	<i>Sea</i>	
		2900	<i>Bar.</i>	
		3000	<i>Ther. atd</i>	
		3100	<i>Chart</i>	
		3200	<i>Course PSC</i>	
		3300	<i>Lat.</i>	
		3400	<i>Long.</i>	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

James Lusk  
1905

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7-5-